

CLAIMS

1. A write-once-type recording medium on which record data can be recorded only once, comprising:

- 5 a data area to record therein the record data; and
a shared area to temporarily record therein evacuation data which is record data to be recorded or already recorded at a position of a defect in said data area and defect management information including an evacuation source address of the evacuation data.

10

2. The write-once-type recording medium according to claim 1, wherein the evacuation data and the defect management information are continuously recorded in said shared area.

- 15 3. The write-once-type recording medium according to claim 1, wherein the evacuation data and the defect management information are each recorded, repeatedly, a plurality of times, in said shared area.

4. The write-once-type recording medium according to claim 1,
20 comprising a plurality of shared areas.

5. The write-once-type recording medium according to claim 1, further comprising a control information recording area to record therein information for controlling at least one of operations of recording and reading in said data
25 area, said control information recording area including a definite defect management area to record therein defect management information of said

data area.

6. The write-once-type recording medium according to claim 5, wherein said shared area is disposed between said control information recording area
5 and said data area.

7. A recording apparatus for recording record data onto a write-once-type recording medium on which record data can be recorded only once, comprising: a data area to record therein the record data; and a shared
10 area to temporarily record therein evacuation data which is record data to be recorded or already recorded at a position of a defect in said data area and defect management information including an evacuation source address of the evacuation data,

said recording apparatus comprising:

15 a first recording device for recording the record data into said data area; and

a second recording device for recording the evacuation data and the defect management information into said shared area.

20 8. The recording apparatus according to claim 7, wherein said second recording device records the evacuation data and the defect management information, continuously into said shared area.

9. The recording apparatus according to claim 7, wherein said second
25 recording device uses a border point of a data-recorded-area and a data-unrecorded-area in said shared area as start point, to thereby record the

evacuation data and the defect management information into the data-unrecorded-area.

10. A recording method of recording record data onto a write-once-type
5 recording medium on which record data can be recorded only once,
comprising: a data area to record therein the record data; and a shared area
to temporarily record therein evacuation data which is record data to be
recorded or already recorded at a position of a defect in said data area and
defect management information including an evacuation source address of
10 the evacuation data,

said recording method comprising:

a first recording process of recording the record data into said data
area; and

a second recording process of recording the evacuation data and the
15 defect management information into said shared area.

11. A reproducing apparatus for reproducing the record data recorded on
the write-once-type recording medium according to claim 1,

said reproducing apparatus comprising:

20 a reading device for reading the defect management information
recorded in said shared area; and

a reproducing device for reproducing the record data recorded in said
data area or the evacuation data recorded in said spare area, on the basis of
the read defect management information.

25

12. The reproducing apparatus according to claim 11, wherein said

reading device searches for a border point of a data-recorded-area and a data-unrecorded-area in said shared area, to thereby read the defect management information.

5 13. A reproducing method of reproducing the record data recorded on the write-once-type recording medium according to claim 1,

said reproducing method comprising:

a reading process of reading the defect management information recorded in said shared area; and

10 a reproducing process of reproducing the record data recorded in said data area or the evacuation data recorded in said spare area, on the basis of the read defect management information.

14. A computer program for recording control to control a computer
15 disposed in the recording apparatus according to claim 7, said program making the computer function as at least one portion of said first recording device and said second recording device.

15. A computer program for reproduction control to control a computer
20 disposed in the reproducing apparatus according to claim 11, said program making the computer function as at least one portion of said reading device and said reproducing device.

16. A data structure comprising:
25 a data area to record therein the record data; and
a shared area to temporarily record therein evacuation data which is

record data to be recorded or already recorded at a position of a defect in said data area and defect management information including an evacuation source address of the evacuation data.